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EUROPEAN PATENT APPLICATION

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Applicant: **VESTAR RESEARCH INC., 939, East Walnut Avenue, Pasadena California 91106 (US)**

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Method for preparing small vesicles using microemulsification.

A method is provided for preparing small (less than 2000 Å) lipid vesicles in commercial quantities by microemulsifying lipid compositions using very high shear forces generated in a homogenizing apparatus operated at high pressures at a selected temperature. These vesicles are suitable for various biological applications including targeting of tumors in a body for diagnosis and treatment.



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EUROPEAN SEARCH REPORT

0190050

Application number

EP 86 30 0641

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X,D	EP-A-0 004 467 (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) * Page 21, lines 18-31; page 22, lines 12-31 *	1,4,6, 7,24	A 61 K 9/50 B 01 J 13/02
Y,D	---	8-13	
X	EP-A-0 107 559 (PARFUMS CHRISTIAN DIOR) * Claims *	1,24	
Y	---	8-13	
Y	G. GREGORIADIS: "Liposome technology", vol. I, "Preparation of liposomes", pages 51-65, CRC Press, Inc., Boca Raton, Florida, US * Pages 52-54 *	8-13	
	---		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
Y	G. GREGORIADIS: "Liposome technology", vol. II, "Incorporation of drugs, proteins, and genetic material", pages 19-31, CRC Press, Inc., Boca Raton, Florida, US * Pages 20-31, paragraphs A3,B2,C2,E1 *	14-31	A 61 K B 01 J
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09-07-1987	Examiner GERLI P.F.M.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



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DOCUMENTS CONSIDERED TO BE RELEVANT			Page 2
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	ANALYTICAL BIOCHEMISTRY, vol. 94, 1979, pages 302-307, Academic Press, Inc.; M.R. MAUK et al.: "Preparation of lipid vesicles containing high levels of entrapped radioactive cations" ---	14-31	
Y	US-A-4 310 506 (BALDESCHWIELER et al.) * Example 1; claims * --- -----	14-31	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
Place of search THE HAGUE		Date of completion of the search 09-07-1987	Examiner GERLI P.F.M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			